

Oregon Health & Science University Pacific Northwest Evidence-based Practice Center (PNW EPC)

Postdoctoral Fellowship in AI for Systematic Reviews



The Pacific Northwest Evidence-based Practice Center (PNW EPC) was established in 1997 as one of the EPCs designated by the U.S. Federal Government Agency for Healthcare Research and Quality (AHRQ). The PNW EPC conducts comprehensive systematic evidence reviews and produces other evidence products to support the development of national and international clinical practice guidelines and healthcare policies. We want to use Artificial Intelligence (AI) and machine learning to redefine how we do systematic reviews – making the process more efficient and reviews more useful.

Postdoctoral Fellowship Overview

OHSU/NLM Fellow with interests in this field will help lead our effort to pioneer the use of AI and machine learning for systematic reviews. During the fellowship, a fellow will develop and implement innovative machine-learning models that streamline the systematic review process, from literature search and data extraction to analysis and interpretation. This role will focus on enhancing the precision and speed of evidence synthesis, enabling researchers, healthcare practitioners, patients, payers, and policymakers to make informed decisions faster and more reliably. Potential projects may focus on automating literature search with machine learning algorithms, using natural language processing (NLP) techniques to extract data automatically, implementing AI methodologies to assess the quality of studies and detect bias, or developing AI-driven tools that facilitate the dissemination and interpretation of systematic review findings. Fellows will work under the guidance of experts in AI/machine learning, systematic review methodologies, and clinical informatics. By the end of the fellowship, participants will have contributed to cutting-edge research that bridges the gap between AI technology and practical healthcare applications.

Program Benefits

- **Support:** Funded by the National Library of Medicine (NLM), which provides health insurance, monthly stipend and tuition, with an opportunity to earn salary for up to 25% FTE on related projects.
- **Education opportunity:** Opportunity to take coursework in Bioinformatics and Computational Biomedicine or Health & Clinical Informatics, or topics related to evidence generation and synthesis.
- **Duration:** 1-year full-time, on-campus program in Portland, OR, starting July 1, 2024.

Eligibility

- Per NIH conditions, by the time of appointment, the trainee must be a United States citizen or non-citizen national who has been lawfully admitted for permanent residency.
- Must have a doctoral degree (e.g., PhD, DO, MD, DNP, DrPH, PharmD, etc.) by the start date.

Application Process

Apply by May 31, 2024

Submit Your Application

[Apply Online](http://www.ohsu.edu/informatics)

(<http://www.ohsu.edu/informatics>) - Click on Education/Admissions Information/Post-doctoral tab

Contact Information

For further inquiries: **Ilya Ivlev, MD, PhD**,
Co-Director, PNW EPC
Email: ivlev@ohsu.edu. Please include
“NLM/AI Postdoc: [Applicant Last Name]” in
the subject line

